

## CONTENTS

Preface iii

### SECTION I - PURE SCIENCE

<b>EFFECTS OF <i>LANTANA CAMARA</i> LEAF EXTRACT ON THE MORTALITY OF <i>MUSCA DOMESTICA</i> LARVAE</b>	1
<i>Shubatra Nahenthara Raj, Izzah Athirah Abdullah Zailani, Nurul Farhanah Abu Bakar, Muhammad Shah Hakimi Sarizat</i>	
<b>NORMAL COMMUNICATION BEHAVIOUR OF <i>HOSPITALITERMES HOSPITALIS</i> SP. TERMITERANDOM IN TRANSMIT INFORMATION BETWEEN INDIVIDUAL</b>	6
<i>Arif Anwar, Faszly Rahim and Mohammad-Faris</i>	
<b>COLONY FORMATION UNIT LEVEL OF FIVE PLACES IN PERMATApintar™ NATIONAL GIFTED CENTRE</b>	17
<i>Anissha Raju, Siti Norhafiza Jahay, Mugelan Vejayan, Mohammad Ikhwan Khairun Nadzim, Mohd Firdaus Raih</i>	
<b>A STUDY ON THE AWARENESS OF DESTRUCTION ON THE CORAL REEFS</b>	23
<i>Fasha Liyana Johari, Khairun Nisa' A. Shukor, Wan Ahmad Hakeemud-Deen Wan Asmadi, Junaid Ibrahim, Ong Sy Ing, Ismail Sahid</i>	
<b>THE STUDY OF SOLAR FLARE PATTERNS AND EFFECTS OF SOLAR FLARES</b>	32
<i>Wan Aiman Haqqeem Abdul Razak, Safwan Zulfazli Abdul Kadir, Mardina Abdullah, Mohd Hezri Mokhtar</i>	
<b>SEPTIC ARTHRITIS IN ADULTS AND CHILDREN</b>	44
<i>Nurul Ilham Noruddin, Nurul A'mira Chok Keri, Nadhira Atasha Abdul Rahim, Izzah Irdina Juremi, Sharaf Ibrahim, Abdul Halim Abdul Rashid, Ramliza Ramli, Muhammad Kamal Muhammad Abdul Jamil</i>	
<b>FEAR OF MEDICAL PROCEDURES IN CHILDREN FROM 4 TO 6 YEARS OLD</b>	49
<i>Nur Izzati Huda Zulkarnain, Aini Ab Aziz</i>	
<b>HEART SCREENING FOR RISK OF FUTURE CORONARY ARTERY DISEASE</b>	60
<i>Sim Zong Xern, Izzatul Ismah, Rushda Adiba, Aalyaa Aiza, Chiok Shin Yee, Fadzirul Ikhwan, Oteh bin Maskon</i>	
<b>CAN TERMITE AGGREGATION IN MOUNDS BE DETECTED BY ABIOTIC PARAMETERS?</b>	67
<i>Wai Wan Jun, Faszly Rahim, Mohammad-Faris, M.E, Fairuz Adlidna, Nur Atiqah Jamaludin, Shafuraa</i>	
<b>THE CAUSES THAT INCREASES THE RISK FACTORS OF ENDOMETRIAL CANCER AMONG THE MALAYSIA WOMEN</b>	76
<i>Norsafrizah Malanji, Nur Hanina Izzati Khairol Mokhtar, Noorsyakina Simin, Ahmad Zailani Hatta</i>	
<b>SURVEY ABOUT AWARENESS AND ATTITUDE OF GIFTED HIGH SCHOOL STUDENTS TOWARD GENETIC TESTING AND GENETIC COUNSELING</b>	85
<i>Ooi Sean Khan, Wong Sze Lin, Nuradibah binti Adnan, Nurul Atikah binti Mishan, Mohd Ajmal bin Japeli, Endom Ismail</i>	

<b>THE UV-VISIBLE AND INFRARED SPECTRA OF COBALT AND NICKEL COMPLEXES</b>	96
<i>Safwan Ibrahim, Muhamad Zharif Hanafi Mohd Hatta, Siew San Tan, Mohammad Bin Kassim</i>	
<b>WHEN DID THE BABY DIE: A STUDY OF BABY DECOMPOSITION LIKE ANIMAL MODEL</b>	107
<i>Loo Jie Qi, Nuradila Mohd Ali, Miza Farisah Mohd Arifin, Nurul Aqilah Mohd Aziznudin, Nor Hikemar A Rahman, Nursakinah Mat Hazir, Khairul Bin Osman</i>	
<b>CLONING AND PROTEIN EXPRESSION STUDY OF RECOMBINANT HYPOTHETICAL PROTEINS BPSS0812A AND BPSL0739 FROM <i>BURKHOLDERIA PSEUDOMALLEI</i></b>	113
<i>Muhd Shafiq Farhan Bin Che Hamzah, Nor Adilah Binti Ahmad, Shafiqah Binti Azman, Sofiyah Binti Shaibullah, Nurhikmah Binti Mohd Sharif, Tan Siew San, Dr Ng Chyan Leong</i>	
<b>SECTION II: APPLIED SCIENCE</b>	
<b>WILDFIRE DETECTING PROGRAMME FOR UNMANNED AERIAL VEHICLE</b>	121
<i>Wee Yi Zhi, Mohammad Syukri, Haizad Akmal, Wan Mohamad Afiq Lukman, Norfaizin Abdul Latip, Anton Satria Prabuwono, Hendri Himawan</i>	
<b>CRYSTAL PYRO-CARBON</b>	132
<i>Syafiq Akmal Mohd Hussein, Mohd Idham Harith Suhaimi, Muhammad Amier Zaky Razali, Tuan Norma Yaacob, Adura Azlin Ishak</i>	
<b>APPLICATION OF ECONOMICS IN SIMPLE GAMES</b>	140
<i>Hashwini A Ganesh, Ashuvinee Elangovan</i>	
<b>WAVES: SAVE YOUR HOME</b>	143
<i>Nuraini Najihah Zulkifli, Muhammad Syafiq Mohd Zin, Muhammad Afieq Azwa Azman, Kaveesh Nair G.Sudhakaran, Sheikh Muszaphar Shukor Al-Masrie Sheikh Mustapha, Gan Kok Beng</i>	
<b>ROBOTICS INGENUITY: A STEP TO A BETTER TOMORROW</b>	151
<i>Teoh Jing Ning</i>	
<b>THE EFFECT OF COW'S MILK AND GOAT'S MILK ON BLOOD LIPID PROFILE IN NORMAL RATS</b>	160
<i>Nabilah Hamdiah Che Sammudin, Noor Izyani Mokhtar, Rachmat Fangilin Sigit Wibowo, Puteri Adilah Salahuddin</i>	
<b>THE DESIGN OF A TROPICAL DWELLING WITH THERMAL COMFORT CHARACTERISTICS: A MUSOLLA FOR PERMATAPINTAR, BY THE NUSANTARA BUILDING GROUP (NUBIG).</b>	167
<i>Ahmad Faisal Hamdan, Mohamad Akmal Ikram Ismail, Abdul Razak Abd Rasid, Muhammad Khairul Anuar Rosli, Nur Dini Zulkifli, Che Husna Azhari</i>	
<b>A GOAL PROGRAMMING APPROACH TO MAXIMIZE THE PROFIT GAINED BY COOP PERMATAPINTAR NATIONAL GIFTED CENTRE</b>	173
<i>Stanley Cheah, Wong Hong Pei, Nasruddin Hassan</i>	
<b>QUALITY CONTROL OF <i>ORTHOSIPHONSTAMINEUS</i> USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED</b>	178

**SPECTROPHOTOMETRY AND CHEMOMETRICS***Pang Zheng Bin, Jamia Azdina Jamal, Nor-Ashila Aladdin, Noor Azlina Ahmad Jamil***FACTORS AFFECTING THE CAPTURE OF SOLAR ENERGY**

186

*Bryan Tam Sheng Cong, Tan Nian Wei, Peter Tan Shern Wei, Gabriel Hagabean Jebon***SECTION III: SOCIAL SCIENCE****BODY IMAGE DISSATISFACTION AMONG MALAYSIAN GIFTED STUDENTS**

193

*Norfiza A., Mohd Amizul Zakaria., Hanissa Husni Abdul Razak, Amira Aqilah Shaidin, Lim Kexin, Adli .***THE SOCIAL, EMOTIONAL, AND ACADEMIC ADJUSTMENT OF PERMATAPINTAR™ HIGH SCHOOL PROGRAMME**

203

*Mohamad Shahrul Syahiddil, Anis Rasyiqah, Noriah Ishak, Suzailly Wahab***THE EFFECTS OF STATIC AND DYNAMIC STRETCHING ON EXPLOSIVE POWER, AGILITY, FLEXIBILITY AND SPRINT**

209

*Noor Anisah Abu Yazit, Ahmad Mokhtar Hussain, Rozlina Tan Abdullah***THE TRANSFER OF IDIOMS FROM ENGLISH TO MALAY: THE CASE OF LOST IN TRANSLATION**

218

*Nurul Ain Md Zamri, Kalthum Ibrahim, Norwati Md Yusof***SIESTA OR MIDDAY NAPPING: EFFECTS ON STUDENTS' THINKING SKILLS**

223

*Adlinur Lam Alif Lam, Nor Anis Ayuni Ashari, Nurul Harzira Mohamad Nor, Puteri Ainaa Syahirah Ibrahim***FERTILITY AWARENESS AND ATTITUDES TOWARDS PARENTHOOD AMONG MALE AND FEMALE COMMUNITY IN PERMATAPINTAR™ NATIONAL GIFTED CENTRE**

230

*Amirah Mohd Ariff, Nur Atikah Yusri, Haifa Hanani Mohd Zaki, Najwa Amira Matlan, Noorsyakina Simin, Mohd Hashim Omar***INDIVIDUAL FINANCIAL MANAGEMENT AMONG UNIVERSITY STUDENTS TOWARDS POST-GRADUATE STUDENTS FROM DIFFERENT FACULTIES OF UNIVERSITI KEBANGSAAN MALAYSIA, UKM**

243

*Farahanim Nabila Bt. Arbain, Engku Norsyakira Bt. Engku Abd. Harith, Ahmad Kamal Izzuddin B. Kamarulzamil, Amir Asyraf B. Husni Nizad***GIFTED STUDENTS' PERCEPTIONS ON THE USEFULNESS OF BLOGS IN LEARNING ENGLISH LANGUAGE WRITING**

249

*Khairunnisa Adibah Kamarudin, Melor Md Yunus*